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DATE MAILED: 12/06/2001

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO | |
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| 09/491,429 01/26/2000 | | John F. Heanue | SEA5112 | 8521 | |
| 7 | 12/06/2001 | | | | |
| Mark A Wardas | | | EXAMINER | | |
| | perty Department | RODRIGUEZ, ARMANDO | | | |
| 1870 Lundy Avenue San Jose, CA 95131 | | | ART UNIT | PAPER NUMBER | |
| | | | 2877 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Application No. Option Application No. Option O | | | | | | | | | | |
|--|---|--|----------------|-------------------------|---------------------|-----------------|--|--|--|--|
| Examiner | . 9 | | Applicatio | n No. | Applicant(s) | | | | | |
| Armando Rodríguez | | | 09/491,429 | 9 | HEANUE ET AL. | | | | | |
| Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. • Extensions of time may be available under the provisions of 3 CER 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTH from the mailing date of this communication. • If the period for reply is specified above, he mainten with (50) days, a reply within the statutory reintenant of bidty, (30) days, will be considered finally. • If NO period for reply is specified above, he maintenant statutory period with the statutory reintenant of bidty, (30) days, will be considered finally. • If NO period for reply is specified above, he maintenant statutory period with the statutory reintenant of bidty, (30) days, will be considered finally. • If NO period for reply is specified above, he maintenant statutory period with the statutory reintenant of bidty, (30) days, will be considered finally. • If NO period for reply is specified above, he maintenant statutory reintenant of bidty, (30) days, will be considered finally. • If NO period for reply is specified above, he maintenant statutory reintenant of bidty, (30) days, will be considered finally. • If NO period for reply is specified above, he maintenant statutory reintenant of bidty, (30) days, will be considered finally. • If NO period for reply is specified above, he maintenant statutory reintenant of bidty, (30) days, will be considered finally. • Any reply received the reply specified above, he maintenant statutory reintenant of bidty, (30) days, will be considered finally. • Any reply readed above, he maintenant statutory reintenant statutory reintenant of bidty, (30) days, will be considered finally. • Any reply readed above, he maintenant statutory reintenant statutory reintenant statutory reintenant statutory reintenant statutory reintenant statutory reintenant, (30) days, will be considered finally. • Claim(s) 1.1 (1.1 (1.1 (1.1 (1.1 (1.1 (1.1 (1.1 | J | Office Action Summary | Examiner | | Art Unit | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CFR 1.136(a). In no event, however, may a reply be timely filled sharts SIA (MONTH'S from the mailing date of this communication. With the statutory minimum of thinty (20) days will be considered timely. I NO period for may is specified above, the maximum statutory period will apply and will expire SIX (b) MONTH'S from the mailing date of this communication. Pallure to reply which the set autory minimum of thinty (20) days will be considered timely. I NO period for may is specified above, the maximum statutory period will apply and will expire SIX (b) MONTH'S from the mailing date of this communication. Pallure to reply which the statutory period will apply and will expire SIX (b) MONTH'S from the mailing date of this communication. Pallure to reply within the statutor, case the application is become Ashardon become Ashardon to become Ashardon become Ashardon. Pallure to reply which the sot centender profit or reply will, by statute, case the application is end to the communication, even if timely fled, may reduce any seared palment them adjustment. Set 20 CFR 1.706 (2) is 130. Status **Status** Status** Aliance this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** Aliance Claim(s) 1:-11 and 16-20 is/are rejected. To Claim(s) 1:-11 and 16-20 is/are rejected. To Claim(s) 1:-11 and 16-20 is/are rejected. To Claim(s) 1:-11 and 16-20 is/are rejected. Claim(s) 1:-11 and 16-20 is/are rejected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 11) The proposed drawing correction filed on is: a) approv | | | Armando I | Rodriguez | 2877 | | | | | |
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| 1) Responsive to communication(s) filed on 18 September 2001. 2a | A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | | | |
| This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 13-15 is/are allowed. 6) ☐ Claim(s) 1-11 and 16-20 is/are rejected. 7) ☐ Claim(s) 12 is/are objected to. 8) ☐ Claim(s) 12 is/are objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | Responsive to communication(s) filed on 18 s | September 2 | 2001 . | | | | | | |
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| _ | application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | | | |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | 14) 🗌 A | cknowledgment is made of a claim for domest | ic priority un | ider 35 U.S.C. § 119(e | e) (to a provisiona | I application). | | | | |
| a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | | | | | | |
| Attachment(s) | Attachmen | t(s) | | | | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other: | 2) Notic 3) Inform | e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _ | · | 5) Notice of Informal I | | | | | | |



Art Unit: 2877

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-6,10,11 and 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Pease et al (PN 6,304,586).

In figure 4 Pease et al illustrates a tunable laser having a reflector (350), a diffraction grating (340), a laser diode assembly (330) and actuator (370) to provide displacement of the reflector (350). Where the laser cavity is tuned within a wavelength range of 1525-1575 nm.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pease et al (PN 6,304,586) as applied to claim 1 above, and further in view of Ohnstein et al (PN 5,929,542).

Application/Control Number: 09/491,429

Art Unit: 2877

Pease et al discloses in column 7 a stepper motor as the actuator for the tunable laser, which provides displacement to the reflector.

Pease et al fails to discloses the actuator as a micro-machined.

Ohnstein et al discloses the use of micro-machine stepper motors for precise displacement.

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to apply the teaching of Ohnstein and use a similar stepper motor in the laser system of Pease et al because it would provide for precise displacement of the reflector thereby obtaining precise tuning of the laser system.

Allowable Subject Matter

Claim 12 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: None of the prior art alone or in combination discloses the structural combination of the laser system leading up to dependent claim 12 where a Fabry-Perot applied as the source.

Claims 13-15 are allowed.

The following is an examiner's statement of reasons for allowance: None of the prior arts alone or in combination disclose the structural combination of independent claim 13 in particular the micro-actuator having rotary comb drive.

Application/Control Number: 09/491,429

Art Unit: 2877

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Armando Rodriguez whose telephone number is (703) 308-6218. The examiner can normally be reached on 10-hour day / M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (703) 308-4881. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Armando Rodriguez

Examiner Art Unit 2877

AR/FGF November 23, 2001 Frank G Font Supervisor Art Unit 2877